

SERIES

70FXA

SSI MULTI-TURN ABSOLUTE SHAFT ENCODER

The 70SSI Series (in 70mm Frame Size) is an innovative **Low Cost Multiturn absolute** shaft encoder, machined from solid aluminium. It can be factory programmed up to a total of 32 bit resolution **(14 bits per turn x 18 bit turns).**

The encoder incorporates Magnetic ASIC technology for ultimate reliability and performance over a very wide temperature range (-20°C to +85°C).

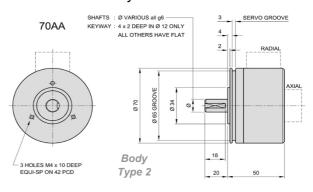
(-40C is also available on request)



SHAFTS: Ø VARIOUS all g6 KEYWAY: 4 x 2 DEEP IN Ø 12 ONLY ALL OTHERS HAVE FLAT RADIAL RADIAL BOdy Body

20

Also available in many other shaft sizes





SPECIFICATIONS

Body:

3 HOLES M4 x 10 DEEP EQUI-SP ON 42 PCD

Precision Machined Aluminium (Stainless Steel Version also available - FXS Series)

Type 1

Cover:

Precision Machined Aluminium (Stainless Steel Version also available - FXS Series)

Shaft:

Stainless Steel

Bearings:

Ballraces

Shaft Sealing:

IP65: Sealed front bearing IP66/IP67: Specialist shaft seal

Protection:

Options: IP65 or IP66 / IP67

Operating Temp:

-20 to +85°C (-40°C at extra cost)

Vibration

 $< 300 \text{ m/s}^2 / 10 \text{ to } 2000 \text{ Hz}$

Shock

 $< 1000 \text{m/s}^2 / 6 \text{ms}$

Maximum Mechanical Shaft Speed:

6000 RPM for IP65 3000 RPM for IP66 / IP67

Inertia:

100gcm² (typical)

Shaft Loading:

Axial = 10N (max) Radial = 10N (max)

Cable Version:

Screened, oil and salt water proof

Output Format

SSI (RS422)

SSI Clock Frequency:

1MHz (max)

Current Consumption:

50 to 100mA

C O N N E C T I O N S

FUNCTION CABLE PLUG ^{colour} Black 0 Volts (Supply) Pin No. 1 Data (+) colour White Pin No. 2 Clock (+) colour Yellow Pin No. 3 **Count Direction** ^{colour} Pink Pin No. 5 If not connected CW = UP If connected to 0v CCW = UP ^{colour}Red Pin No. 8 + Volts (Supply) ^{colour}Brown Pin No. 10 Data (-) colour Violet Clock (-) Pin No. 11 Reset to Zero ^{colour} Green Pin No. 12 (if shorted to 0v)

S T A N D A R D F E A T U R E S

SSI Output (Binary or Gray)

Magnetic Technology

Very High Reliability

IP65 or IP66/IP67 Protection

Up To 32 Bit (at no extra cost)

UK Manufactured

Simple Reset To Zero Function

Robust Construction

Low Cost

Fast Delivery

3 YEAR Warranty

